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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO					
09/758,317	01/12/2001	Hisashi Semba	04853.0055-00	9114					
22852 75									
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 1300 I STREET, NW			EXAMINER MARX, IRENE						
					WASHINGTON	N, DC 20005		ART UNIT	PAPER NUMBER
								1651	
			DATE MAILED: 05/19/2003						

Please find below and/or attached an Office communication concerning this application or proceeding.

	-	Application No.	Applicant(s)				
		09/758,317	SEMBA ET AL.				
^	Office Action Summary	Examiner	Art Unit				
		Irene Marx	1651				
	The MAILING DATE of this communication ap	pears on the cover sheet wit	h the correspondence address				
Period fo	• •	VIC CET TO EVOIDE 2 MC	ONTH(S) FROM				
THE N - Exter - If the - If NO - Failui - Any r - earne	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period reto reply within the set or extended period for reply will, by statule eply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a re ply within the statutory minimum of thirty I will apply and will expire SIX (6) MONT te. cause the application to become AB/	ply be timely filed (30) days will be considered timely. "HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status	D to the control of the day of th	March 2002					
1)[\bigsilon	Responsive to communication(s) filed on <u>21</u>						
2a)☐	,	his action is non-final.	tors procedution as to the marits is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
-		nonding in the application					
•	4) Claim(s) 11-13,16-18,21,22 and 25-40 is/are pending in the application.						
4a) Of the above claim(s) 21,22,25-28 and 35-40 is/are withdrawn from consideration.							
,	Claim(s) is/are allowed.						
6) Claim(s) 11-13,16-18, and 29-34 is/are rejected.							
-	7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
· ·	on Papers	or election requirement.					
	The specification is objected to by the Examin	er.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority u	ınder 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority documer	nts have been received.					
	2. Certified copies of the priority documer	nts have been received in A	pplication No				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) 🗌 A	Acknowledgment is made of a claim for domes	stic priority under 35 U.S.C.	§ 119(e) (to a provisional application).				
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 							
Attachmen	•	, ,					
1) Notice Notice Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of I	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)				
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A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/21/03 is acknowledged and entered. Claims 11-13,16-18, and 29-34 are being considered on the merits. Claims 21-22, 25-28 and 35-40 are withdrawn from consideration as directed to a non-elected invention.

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: The terms "absorbed", "absorption", etc., should be appropriately replaced by "adsorbed", "adsorption", etc..

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112: The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 11-13,16-18, 29-34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 11 and 16 are vague and indefinite in the recitation "derived from one or more of...", since it is unclear whether the enzyme is derived by chemical, physical or biological means. Also, it is unclear whether the term "derived" is intended to denote a modification of the enzyme. Amendment to -- obtained from-- would be remedial.

Claims 11 and 16 are confusing in the recitation of "an immobilized enzyme comprising (S)-hydroxynitrile lyase", since the extent of (S)-hydroxynitrile lyase in the preparation is unclear.

Amendment to "An immobilized (S)-hydroxynitrile lyase obtained from..." would overcome the rejections.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 11-13,16-18, and 29-34 are rejected under 35 U.S.C. 102(b) as being anticipated by Andruski *et al.*.

The claims are directed to an immobilized enzyme comprising (S)-hydroxynitrile lyase derived from plants such as *Poaceae*, wherein the enzyme is immobilized on a carrier comprising a porous inorganic material.

The reference discloses an immobilized (S)-hydroxynitrile lyase derived from plants such as sorghum, which belongs to the *Poaceae*, wherein the required enzyme (S)-hydroxynitrile lyase (E.C. 4.1.2.11) is immobilized on a carrier comprising a porous inorganic material. See, e.g., Col. 4, lines 7-16 and Example 1.

The pH of immobilization is 5.4 (See, e.g., col. 7, line 30); the range of pore sizes is 0.01 to 100 μ m, which encompasses 10-80 nm and 10-60 nm (See, e.g., col. 4, lines 6-20); the carrier comprises silica; and the surface area thereof is 80 m²/g (See, e.g., col. 4, line 24).

Applicant's arguments with respect to claims 11-13,16-18, and 29-34 have been considered but are most in view of the new ground(s) of rejection.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Irene Marx whose telephone number is (703) 308-2922. The examiner can normally be reached on Monday through Friday from 6:30 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn, can be reached on (703) 308-4743. The appropriate fax phone number for the organization where this application or proceeding is assigned is before final (703) 872-9306 and after final, (703) 872-9307.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Customer Service whose telephone number is (703) 308-0198 or the receptionist whose telephone number is (703) 308-1235.

Irene Marx

Primary Examiner

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